

*In the claims*

1. (Previously presented) A method of treating ischemic injury comprising administering to a subject at a site of ischemic injury allene oxide synthase protein in an amount effective to treat the ischemic injury.
2. (Previously presented) The method of claim 1, wherein said ischemic injury is myocardial infarction.
3. (Previously presented) The method of claim 1, wherein said ischemic injury is cerebrovascular stroke.
4. (Currently amended) A method of reducing **ischemia-reperfusion** ~~[risk of ischemie]~~ injury comprising administering to ~~[potential site of injury in]~~ a subject **in need thereof** ~~[at risk of ischemic injury]~~ allene oxide synthase protein in an amount effective to reduce ~~[risk of the ischemic injury]~~ **ischemia-reperfusion injury, wherein the subject suffers from one or more condition selected from the group consisting of coronary artery occlusion, myocardial infarction, angina pectoris, thrombolysis, myocardial ischemia, mesenteric ischemia, cerebrovascular stroke, hepatic ischemia, limb ischemia, and optical ischemia; and/or the subject is undergoing or has undergone a procedure selected from the group consisting of angioplasty and coronary artery bypass surgery.**
5. (Currently amended) The method of claim 4, wherein ~~[said ischemic injury]~~ **the subject suffers from** ~~[is]~~ myocardial infarction.
6. (Currently amended) The method of claim 4, wherein ~~[said ischemic injury]~~ **the subject suffers from** ~~[is]~~ cerebrovascular stroke.
7. (Canceled)
8. (Currently amended) The method of claim 4, wherein the subject is undergoing **or has undergone** a procedure selected from the group consisting of angioplasty and coronary bypass surgery.
9. (Previously presented) The method of claim 1 wherein the ischemic injury is angina pectoris.
10. (Previously presented) The method of claim 4 wherein the subject suffers from angina pectoris.

11. (Previously presented) The method of claim 1 wherein the ischemic injury is thrombosis.
12. (Previously presented) The method of claim 4 wherein the subject suffers from **thrombolysis** [a thrombosis].
- 13. (New) The method of claim 4 wherein the subject suffers from coronary artery occlusion.**
- 14. (New) The method of claim 4 wherein the subject suffers from myocardial ischemia.**
- 15. (New) The method of claim 4 wherein the subject suffers from mesenteric ischemia.**
- 16. (New) The method of claim 4 wherein the subject suffers from hepatic ischemia.**
- 17. (New) The method of claim 4 wherein the subject suffers from optical ischemia.**
- 18. (New) The method of claim 4 wherein the subject suffers from limb ischemia.**
- 19. (New) The method of claim 4, wherein the subject is undergoing or has undergone an angioplasty procedure.**
- 20. (New) The method of claim 4, wherein the subject is undergoing or has undergone coronary bypass surgery.**